

ABSTRACT

A process for synthesizing 1,5-Dinosyl-3,3,7,7-tetrakis(difluoramino) octahydro-1,5-diazocine (DNTDFD) by reacting tetrahydro-1,5-bis(4-nitrobenzenesulfonyl)-1,5-diazocine-3,7-(2H, 6H) dione with HNF2/oleum initially approximately between -5 and 0 degrees C, and
5 allowing the temperature to rise to between 10 degrees C and ambient temperature during said reaction to initiate difluoramination producing product DNTDFD. A 2:1 mixture of FREON® 11 refrigerant and pentane or cyclopentane, or pentane alone is used as a diluent and absorbent for the reagent difluoramine. The present invention reduces the time required to produce
DNTDFD from about two weeks to one to three days and reduces the need to use relatively large
10 quantities of FREON® 11, a compound which is damaging to the environment.